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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,961	11/27/2001	Karel van den Berg	8553/114a	9011
7590 10/16/2006		EXAMINER		
MASON, MASON & ALBRIGHT 2306 South Eads Street			CHAUDHRY, SAEED T	
P.O. Box 2246			ART UNIT	PAPER NUMBER
Arlington, VA	22202		1746 DATE MAILED: 10/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/993,961	BERG, KAREL VAN DEN	
Office Action Summary	Examiner	Art Unit	
	Saeed T. Chaudhry	1746	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.136(a). In no event, however, may a reply be and will apply and will expire SIX (6) MONTHS froute, cause the application to become ABANDON	DN. timely filed m the mailing date of this communication. NED (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on 17 This action is FINAL. Since this application is in condition for allow closed in accordance with the practice under 	nis action is non-final. vance except for formal matters, p		
Disposition of Claims			
4) Claim(s) 35-38 and 55-64 is/are pending in the 4a) Of the above claim(s) is/are withdrest signal is and 55-64 is/are allowed. 6) Claim(s) 55-64 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and claim(s) are subject to restriction and claim(s) are subject to by the Examination of the drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing sheet(s) including the correction.	rawn from consideration. I/or election requirement. ner. ccepted or b) objected to by the ne drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).	
11) The oath or declaration is objected to by the I	•		
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in Applica iority documents have been received (PCT Rule 17.2(a)).	ition Noved in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5] Notice of Informal 6) Other:	Date	

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DETAILED ACTION

Applicant's amendments and remarks filed November 17, 2005 have been acknowledged by the examiner and entered. Claims 1-34 and 39-54 have been canceled and claims 35-38 and 55-64 are pending in this application for consideration.

Terminal disclaimer filed July 6, 2004 has been accepted and claims 35-44 rejected under obviousness-type double patenting has been withdrawn in view of the terminal disclaimer.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 55-57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hei et al in view of Branton and Pera.

Hei et al (5,567,444) disclose a method of cleaning and sanitizing process facilities such as milk line dairy by circulating an aqueous sanitizing composition comprising an effective amount of hydrogen peroxide and acetic acid. The reference discloses that it is common to

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prepare, in-situ, and employ peracid sanitizers with hydrogen peroxide (see claim 25 and col. 24, lines 41-44). The composition of the invention can be formulated by merely mixing acetic acid, hydrogen peroxide and fatty acids. By allowing solution time for equilibrium to be obtained, the product containing both of the active biocides is obtained (see col. 12, lines 45-50). The peracid components used in the composition of the invention can be produced in a simple manner by mixing a hydrogen peroxide solution with the desired amount of acid. The hydrogen peroxide solution can be added to peracid such as peracetic acid to produce the peracid composition. The concentrate can contain about 1 to 70%, preferably 5 to 30 wt-% of hydrogen peroxide. Hei et al disclose all the limitations as claimed herein. One preferred application of the materials of the invention relates to dairy processing equipment. Such equipment are commonly made from glass or stainless steel. Such equipment can be found both in dairy farm installations and in dairy plant installations for the processing of milk, cheese, ice cream or other dairy products.

The material can be sprayed onto the surface, surfaces can be dipped into the aqueous material, the aqueous cleaning material can be used in automatic warewashing machines or other batch-type processing (see col. 7, lines 8-25). The reference fails to specify an automated method of cleaning a milk line system.

Branton (3,916,923) discloses a method and an apparatus for washing milking system. The present invention is directed to an apparatus for automatically washing and sanitizing a pipeline milking system. After the milking has been completed, the wash cycle is initiated and the apparatus automatically programs a first rinse cycle, a wash cycle and a second rinse cycle with detergent and acid being automatically added to the water during the wash and second rinse cycles, respectively, to completely clean the pipeline and the other attached milking

components. A predetermine criteria such as 24 hour timer which is programmed to start a sanitizing operation at a preset time (see col. 1, lines 20-32).

Pera (5,415,192) discloses milking robots, which make is possible to milk continuously, the cleaning process must be carried out automatically. Since in automatic control of the milking robots a control device is already present for automatic control of the milking process, there is need for cleaning device which operates fully automatically (see col. 1, lines 43-49).

It would have been obvious at the time applicant invented the claimed process to utilize a method of automatically cleaning the milk line system of Branton and Pera into the process of Hei et al. The artisan would have been motivated to make the instant combination in an attempt to automate the cleaning process and reduce human errors. Further, the claimed process uses language which does not exclude any other steps or chemicals. Furthermore, hydrogen peroxide is well known chemical for sanitizing the soil surfaces as disclosed by Hei et al. Therefore, one of ordinary skill in the art would use hydrogen peroxide for sanitizing and cleaning milking system.

Claim 58 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hei et al in view of Branton and Pera as applied to claim 57 above, and further in view of Bowing et al.

Hei et al, Branton and Pera were discussed <u>supra</u>. However, the references fail to disclose peracetic acid in the range of five to fifteen percent by weight.

Bowing et al (4,051,059) disclose a composition to prevent the growth of germs on machines particularly food industries and killing microorganism comprising 0.5% to 20 % peracetic acid, 25 to 40 % hydrogen peroxide and remainder to 100% by weight water (see col. 3, lines 5-8, col. 4, line 1 and claims).

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It would have been obvious at the time applicant invented the claimed process to utilize composition as disclosed by Bowing et al and manipulate the percentage of the peracetic acid in the process of Hei et al to enhance the cleaning efficiency and prevent the growth of the germs in the milk line system.

Claims 59-64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hei et al in view of Branton, Pera and DE-342711.

Hei et al., Branton and Pera were discussed supra. However, the references fail to use electrical conductivity measurement of cleaning solution.

DE-3424711 discloses a method of determining the cleanliness of food manufacturing machinery wherein the cleaning fluid is applied to the parts of the system without dismantling, which uses a pair of measured values to show the electrical conductivity of the cleaning fluid before and after application. During the cleaning phase, the separate values are compared with each other. The cleaning phase is ended when the difference between the separate and simultaneous values has dropped to preset minimum level. The reference fails to use hydrogen peroxide as a cleaning solution and the milk line are automatically cleaned.

It would have been obvious at the time applicant invented the claimed process to automatically clean the milking system as disclosed by Branton and measure the electric conductivity of cleaning solution as disclosed by DE-3424711 into the process of Hei et al to control the duration of cleaning phase and to reduce the energy consumption by the cleaning process. Further, one of ordinary skill in the art would measure the conductivity of the cleaning solution where it is most susceptible to contamination such as line interconnected with teat cups to enhance the cleaning efficiency. Furthermore, one of ordinary skill in the art would manipulate the percentage of the hydrogen peroxide for better cleaning and sanitizing the equipment.

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Allowable Subject Matter

Claims 35-38 are allowed over the cited prior art.

Reasons For Allowable Subject Matter

The following is an Examiner's statement of reasons for the indication of allowable subject matter:

None of the prior art discloses or suggests a method wherein electrical current between a pair of electrodes determine the wholesomeness of milk or the fluid hydrogen peroxide. The closest cited prior art DE-3424711 disclose to compare electrical conductivity of the cleaning solution but fails to measure the conductivity of the milk to determine the wholesomeness of the milk.

Applicant's arguments with respect to claims November 17, 2005 have been considered but are deemed to be moot in view of the new grounds of rejection.

Applicant's amendment necessitated the new grounds of rejection. Accordingly, THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed T. Chaudhry whose telephone number is (571) 272-1298. The examiner can normally be reached on Monday-Friday from 9:30 A.M. to 4:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Barr, can be reached on (571)-272-1414. The fax phone number for non-final is (703)-872-9306.

When filing a FAX in Gp 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Saeed T. Chaudhry

Patent Examiner

ALEXANDER MARKOFF PRIMARY EXAMINER

Alra Mill

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